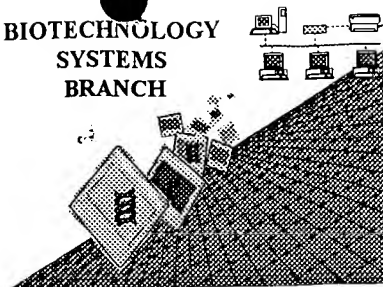


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/877,526
Source: OPE
Date Processed by STIC: 6/27/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/877,526

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING

DATE: 06/27/2001

PATENT APPLICATION: US/09/877,526

TIME: 18:48:28

Input Set : A:\SEQUENCE LISTING.asfiled.2001.06.08.txt

Output Set: N:\CRF3\06272001\I877526.raw

AP: 1-5

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Ribozyme Pharmaceuticals, Inc
 4 Usman, Nassim
 5 McSwiggen, Jim
 6 Zinnen, Shawn
 7 Seiwert, Scott
 8 Haeberli, Pete
 9 Chowrira, Bharat
 10 Blatt, Larry
 11 Vaish, Narendra
 13 <120> TITLE OF INVENTION: A Process for the Detection of Nucleic Acid Using Nucleic
 Acid Catalysts
 15 <130> FILE REFERENCE: 700/002
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/877,526
 C--> 18 <141> CURRENT FILING DATE: 2001-06-08
 20 <150> PRIOR APPLICATION NUMBER: 60/187,128
 21 <151> PRIOR FILING DATE: 2000-03-06
 23 <160> NUMBER OF SEQ ID NOS: 49
 25 <170> SOFTWARE: PatentIn version 3.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 15
 29 <212> TYPE: RNA
 30 <213> ORGANISM: Artificial Sequence
 32 <220> FEATURE:
 33 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
 35 <400> SEQUENCE: 1
 36 aagcacuaau ggaga
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 15
 41 <212> TYPE: RNA
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
 47 <400> SEQUENCE: 2
 48 aagcacuaac aguaa
 51 <210> SEQ ID NO: 3
 52 <211> LENGTH: 37
 53 <212> TYPE: RNA
 54 <213> ORGANISM: Artificial Sequence
 56 <220> FEATURE:
 57 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
 59 <400> SEQUENCE: 3
 60 ucuccaucug augaggccgu uaggccgaaa gugcuug
 63 <210> SEQ ID NO: 4
 64 <211> LENGTH: 43
 65 <212> TYPE: RNA
 66 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:
 69 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid

is sufficient explanation -
 give
 source
 of genetic
 material
 (see
 item 11
 on Enva
 summary
 sheet)

RAW SEQUENCE LISTING

DATE: 06/27/2001

PATENT APPLICATION: US/09/877,526

TIME: 18:48:28

Input Set : A:\SEQUENCE LISTING.asfiled.2001.06.08.txt

Output Set: N:\CRF3\06272001\I877526.raw

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71 <400> SEQUENCE: 4
72 ucuccaucug augaggccgu uaggccgaaa gugcuugcga gug 43
75 <210> SEQ ID NO: 5
76 <211> LENGTH: 43
77 <212> TYPE: RNA
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
83 <400> SEQUENCE: 5
84 uuacugucug augaggccgu uaggccgaaa gugcuugcga gug 43
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 25
89 <212> TYPE: RNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
95 <220> FEATURE:
96 <221> NAME/KEY: misc_feature
97 <222> LOCATION: (1)..(25)
98 <223> OTHER INFORMATION: 2'-O-Methyl
100 <400> SEQUENCE: 6
101 caagcacuuu cucaucagau ggaga 25
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 31
106 <212> TYPE: RNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: (1)..(31)
115 <223> OTHER INFORMATION: 2'-O-Methyl
117 <400> SEQUENCE: 7
118 cacucgcaag cacuuucua ucagauggag a 31
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 26
123 <212> TYPE: RNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
129 <220> FEATURE:
130 <221> NAME/KEY: misc_feature
131 <222> LOCATION: (1)..(26)
132 <223> OTHER INFORMATION: 2'-O-Methyl
134 <400> SEQUENCE: 8
135 cacucgcaag caccuacag gcagua 26
138 <210> SEQ ID NO: 9
139 <211> LENGTH: 28
140 <212> TYPE: RNA

```


RAW SEQUENCE LISTING

DATE: 06/27/2001

PATENT APPLICATION: US/09/877,526

TIME: 18:48:28

Input Set : A:\SEQUENCE LISTING.asfiled.2001.06.08.txt

Output Set: N:\CRF3\06272001\I877526.raw

209 <222> LOCATION: (23)..(25)
 210 <223> OTHER INFORMATION: n stands for any nucleotide
 212 <220> FEATURE:
 213 <221> NAME/KEY: misc_feature
 214 <222> LOCATION: (31)..(36)
 215 <223> OTHER INFORMATION: n stands for any nucleotide
 217 <220> FEATURE:
 218 <221> NAME/KEY: misc_feature
 219 <222> LOCATION: (1)..(8)
 220 <223> OTHER INFORMATION: 2'-O-Methyl
 222 <220> FEATURE:
 223 <221> NAME/KEY: misc_feature
 224 <222> LOCATION: (12)..(12)
 225 <223> OTHER INFORMATION: 2'-O-Methyl
 227 <220> FEATURE:
 228 <221> NAME/KEY: misc_feature
 229 <222> LOCATION: (14)..(26)
 230 <223> OTHER INFORMATION: 2'-O-Methyl
 232 <220> FEATURE:
 233 <221> NAME/KEY: misc_feature
 234 <222> LOCATION: (28)..(29)
 235 <223> OTHER INFORMATION: 2'-O-Methyl
 237 <220> FEATURE:
 238 <221> NAME/KEY: misc_feature
 239 <222> LOCATION: (31)..(36)
 240 <223> OTHER INFORMATION: 2'-O-Methyl
 242 <220> FEATURE:
 243 <221> NAME/KEY: misc_feature
 244 <222> LOCATION: (9)..(9)
 245 <223> OTHER INFORMATION: 2'-deoxy-2'-C-Allyl
 247 <400> SEQUENCE: 12
 248 nnnnnnncug augagnnnga aannncgaaa nnnnnn 36
 251 <210> SEQ ID NO: 13
 252 <211> LENGTH: 14
 253 <212> TYPE: RNA
 254 <213> ORGANISM: Artificial Sequence
 256 <220> FEATURE:
 257 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
 259 <220> FEATURE:
 260 <221> NAME/KEY: misc_feature
 261 <222> LOCATION: (1)..(5)
 262 <223> OTHER INFORMATION: n stands for any nucleotide
 264 <220> FEATURE:
 265 <221> NAME/KEY: misc_feature
 266 <222> LOCATION: (8)..(14)
 267 <223> OTHER INFORMATION: n stands for any nucleotide
 269 <400> SEQUENCE: 13
 270 nnnnnchnnn·nnnn 14
 273 <210> SEQ ID NO: 14

RAW SEQUENCE LISTING

DATE: 06/27/2001

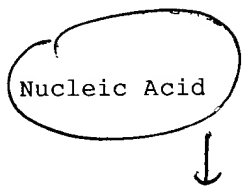
PATENT APPLICATION: US/09/877,526

TIME: 18:48:28

Input Set : A:\SEQUENCE LISTING.asfiled.2001.06.08.txt

Output Set: N:\CRF3\06272001\I877526.raw

274 <211> LENGTH: 35
 275 <212> TYPE: RNA
 276 <213> ORGANISM: Artificial Sequence
 278 <220> FEATURE:
 279 <223> OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid
 281 <220> FEATURE:
 282 <221> NAME/KEY: misc_feature
 283 <222> LOCATION: (1)..(7)
 284 <223> OTHER INFORMATION: n stands for any nucleotide
 286 <220> FEATURE:
 287 <221> NAME/KEY: misc_feature
 288 <222> LOCATION: (16)..(18)
 289 <223> OTHER INFORMATION: n stands for any nucleotide
 291 <220> FEATURE:
 292 <221> NAME/KEY: misc_feature
 293 <222> LOCATION: (23)..(25)
 294 <223> OTHER INFORMATION: n stands for any nucleotide
 296 <220> FEATURE:
 297 <221> NAME/KEY: misc_feature
 298 <222> LOCATION: (31)..(35)
 299 <223> OTHER INFORMATION: n stands for any nucleotide
 301 <220> FEATURE:
 302 <221> NAME/KEY: misc_feature
 303 <222> LOCATION: (1)..(8)
 304 <223> OTHER INFORMATION: 2'-O-Methyl
 306 <220> FEATURE:
 307 <221> NAME/KEY: misc_feature
 308 <222> LOCATION: (12)..(12)
 309 <223> OTHER INFORMATION: 2'-O-Methyl
 311 <220> FEATURE:
 312 <221> NAME/KEY: misc_feature
 313 <222> LOCATION: (14)..(26)
 314 <223> OTHER INFORMATION: 2'-O-Methyl
 316 <220> FEATURE:
 317 <221> NAME/KEY: misc_feature
 318 <222> LOCATION: (28)..(29)
 319 <223> OTHER INFORMATION: 2'-O-Methyl
 321 <220> FEATURE:
 322 <221> NAME/KEY: misc_feature
 323 <222> LOCATION: (31)..(35)
 324 <223> OTHER INFORMATION: 2'-O-Methyl
 326 <220> FEATURE:
 327 <221> NAME/KEY: misc_feature
 328 <222> LOCATION: (30)..(30)
 329 <223> OTHER INFORMATION: n stands for Inosine
 331 <220> FEATURE:
 332 <221> NAME/KEY: misc_feature
 333 <222> LOCATION: (9)..(9)
 334 <223> OTHER INFORMATION: 2'-deoxy-2'-C-Allyl


 The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/877,526

DATE: 06/27/2001

TIME: 18:48:29

Input Set : A:\SEQUENCE LISTING.asfiled.2001.06.08.txt

Output Set: N:\CRF3\06272001\I877526.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49